

Faculty of Architecture

Department of Construction of Buildings and Structures

Professional Area: Architecture, Civil Engineering and Geodesy

Major: Fire and Emergency Safety of Buildings and Structures

Educational and Qualification Degree: Master

- 1. Course unit title:** Safety in operation of fire-fighting equipment and automation
- 2. Course unit code:** TEC 3002
- 3. Type of course:** elective
- 4. Cycle:** specializing
- 5. Year of study when the component is delivered:** second
- 6. Semester:** third
- 7. Number of ECTS credits allocated:** 3
- 8. Name of lecturer(s):** Prof. Eng. Stefan Terziev, PhD, Assoc. Prof. Eng. Milena Kichekova, PhD
- 9. Learning outcomes:** The students are introduced to the regulations for creating healthy and safe working conditions. Also, they are introduced to the rules for safe handling of different types of firefighting and emergency rescue equipment and the equipment for protection in smoke, toxic and high-temperature environments, in environments of ionizing radiation, high wind, low temperatures, floods, heavy snowfalls, earthquakes and catastrophes. They learn about the organization on safe working conditions and how to report accidents at work.
- 10. Prerequisites and co-requisites:** The students are required to possess previous knowledge gained in the courses in Applied Electrical Engineering and Production and Fire Protection Automation.
- 12. Course content:** Safety when working in a highly smoky environment. Safe operation in high temperature environments. Safety in extinguishing fires in special conditions - strong winds, low temperatures, etc. Requirements and safety rules for accidents involving vehicles transporting dangerous substances and cargoes
- 13. Recommended or required reading and other learning resources/tools:**
 1. Ministry of Interior Act
 2. Disaster Protection Act
 3. Crisis Management Act
 4. Ordinance I - 21.01 / of 21.11.06 for implementation of fire extinguishing and emergency rescue activities by General Directorate "Fire Safety and Population Protection"

5. Ordinance No 28 on the equipment and safe operation of vessels operating under pressure.

6. Instruction for organization and implementation of respiratory protection in the structural units of National Service "Fire Safety and Population Protection" - Ministry of Interior

7. Labor Safety Instruction in the structural units of the National Service "Fire Safety and Population Protection" - Ministry of Interior

14. Planned learning activities and teaching methods: lectures, contact hours, self-study

15. Assessment methods and criteria: The following elements are included in the assessment during the training: 10% attendance, 1 contest and / or development of a term paper on an assigned topic (in case of very good results/scores - grade above 4.50 the student is allowed to exempt the final exam) - 20% , final exam (test) - 70%.

16. Language of instruction: Bulgarian

17. Placement: none